

ABSTRACT

Implantable electromechanical converter for receiving oscillations from an ear ossicle and for converting the received oscillations into an electrical voltage, for use as a microphone for a cochlea implant or an implantable hearing aid. A hermetically sealed hollow body has a thin shell made of a biocompatible material. The thin shell can be coupled with an exterior side to the ear ossicle and with an interior side to a piezoelectric converter element. The thin shell is supported by a stable edge that can be coupled to a counter-support in the middle ear space.